

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2004/004257

**A. CLASSIFICATION OF SUBJECT MATTER**  
**IPC 7 G02B6/16 G02B6/12**

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
**IPC 7 G02B**

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, COMPENDEX, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 345 069 A (FITEL USA CORP A DELAWARE CORP) 17 September 2003 (2003-09-17) paragraphs '0017!, '0019!, '0020!	1-43
A	US 6 576 345 B1 (LAXMAN RAVI KUMAR ET AL) 10 June 2003 (2003-06-10)	
A	US 2002/137260 A1 (DENG YANPEI ET AL) 26 September 2002 (2002-09-26)	
A	PAVESI L ET AL: "OPTICAL GAIN IN SILICON NANOCRYSTALS" NATURE, MACMILLAN JOURNALS LTD. LONDON, GB, vol. 408, no. 6811, 23 November 2000 (2000-11-23), pages 440-444, XP001069027 ISSN: 0028-0836	
	----- -/-	

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*Z\* document member of the same patent family

Date of the actual completion of the international search

24 January 2005

Date of mailing of the International search report

07/02/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel: (+31-70) 340-2040, Tx. 31 651 epo nl.  
Fax: (+31-70) 340-3016

Authorized officer

Verbandt, Y

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/GB2004/004257

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PAVESI L: "Will silicon be the photonic material of the third millennium?" JOURNAL OF PHYSICS: CONDENSED MATTER IOP PUBLISHING UK, vol. 15, no. 26, 20 June 2003 (2003-06-20), pages R1169-R1196, XP002314301 ISSN: 0953-8984 -----	

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No

PCT/GB2004/004257

Patent document cited in search report	Publication date	Patent family member(s)			Publication date
EP 1345069	A 17-09-2003	US 2003174985 A1			18-09-2003
		EP 1345069 A2			17-09-2003
US 6576345	B1 10-06-2003	NONE			
US 2002137260	A1 26-09-2002	WO 03063225 A2			31-07-2003
		US 2003087485 A1			08-05-2003
		CA 2439812 A1			31-07-2003
		EP 1466354 A2			13-10-2004